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DII COE Production Engineering Status
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DII COE Release 4.4

- Released 6 April 2001
- CD Content included:
  - Kernels 4.2.0.0 (Solaris 7/8, NT) and 4.2.0.3 (HP-UX 11.0, Windows 2000 Professional)
  - Kernel Patch 4.2.0.0P4 for all OSs
  - ICSF 4.4.0.0
  - Other approved segments
- Separate CDs for each OS (Solaris 7, Solaris 8, HP-UX 11.0, Windows NT, Windows 2000 Professional)

Upcoming Deliveries (1)

- **ICSF Delivery Schedule**
  - **1 June 4.4.0.0P1**
  - **27 July 4.4.0.0P2**
  - **7 September 4.5.0.0**

Upcoming Deliveries (2)

- **Kernel for Windows 2000 Server and Advanced Server with 4.2.0.0P4 functionality**
  - **4.2.0.3 kernel with 4.2.0.0P4 applied has been validated against Win2K Server and Advanced Server**
  - **Beta delivery of updated IP/SVD made available 10 April**
  - **Formal delivery of updated IP/SVD scheduled for 30 April**
- **Work continues on security and directory services issues**

Upcoming Deliveries (3)

- **Kernel Delivery Schedule**
  - **31 July (tentative) 4.2.0.5/4.2.0.0P5**
  - **Contents include:**
    - **Remote kernel installation**
    - **Enhanced support for network segment installation**
    - **Initial support for remote segment installation (framework for integration with products like Tivoli/SMS/CA Unicenter)**
  - **Supported OSs include Windows NT; Windows 2000 Professional, Server and Advanced Server; Solaris 7 and 8; and HP-UX 11.0**

Windows 2000 Server Questions

Which of the following scenarios does the kernel need to support?

1. **Clean install of Windows 2000 Server, then kernel install**
2. **Install of Windows NT Server, upgrade to Windows 2000 Server, then kernel install**
3. **Install of Windows NT Server, kernel install, upgrade to Windows 2000 Server**

P5 Implementation Approach (1)

Kernel installation requirements:

1. **Ensure that the kernel "out of the box" is locked down to ensure that systems consciously make any decisions to relax their security configuration**
2. **Ensure that the kernel can be loaded on machines that are part of an existing system without adversely affecting the behavior of already loaded software**

P5 Implementation Approach (2)

- **Planned approach for 4.2.0.5:**
  - **Provide a switch that makes the application of the kernel lockdown optional (default is to apply lockdown)**
  - **Provide support for a system-unique security configuration segment that allows the system to easily apply a standard security policy**

P5 Implementation Approach (3)

- **Bottom line:**
  - **Kernel is still provided locked down**
  - **Systems still need to take steps to relax their configuration**
  - **Systems have the flexibility they need to support their unique situations**

OS Patch Issue (1)

- At the March AOG, the consensus was to make the installation of the OS patch segment and/or vendor patches a software preparation item for COTS products that require patches
- DII COE Engineering would like to enhance this approach by:
  - Embedding vendor patches within the segment (under the data directory)
  - Providing scripts/programs for sysadmin to use to apply patches

OS Patch Issue (2)

- **Advantages:**
  - **The segment will have been tested with the embedded patches and scripts**
  - **Systems will not need to download patches from the vendor site (since OS vendors frequently supersede patches, systems might need to do a lot of analysis to ascertain the appropriate patches)**
- **Recommend approval of modified approach**

Geotrans: DT&CC in COE (1/2)

Background: JMTK Integration in 4.3

- JMU responsible for DT&CC, (uses Geotrans)
- IFL provides DT&CC service to ICSF
  - (e.g., JMV/Cartographer, Map Properties, AFW Chart, C Chart)
  - IFL always looks for JMU as first choice for doing DT&CC
  - IFL resorts to MADTRAN based DT&CC if JMU missing
- JMS Browser (in JMV) uses JMS
  - facilitates loading data from JMS for use by organic JMV draw modules
- JMS Draw Module (in JMS) uses JMV
  - display data managed by JMS
  - Solaris version partially complete

Geotrans: DT&CC in COE (2/2)

JMTK Integration in 4.4

- ICSF (IFL) runtime has <u>new</u> dependency on JMU
  - guarantees that JMU (thus Geotrans) always does DT&CC
- ICSF SDKs install w/o dependency checking
  - IFL SDK will use JMU (Geotrans) if JMU installed
- JMS Browser (in JMV) uses JMS (no change)
- JMS Draw Module (in JMS) uses JMV
  - updated Solaris version
  - scheduled for 4.5:
    - NT version
    - GUIs to control draw module and load data into JMS